

Figure
Gene



Nucleotide and Amino Acid Sequence of the h3D1 Light Chain

XbaI TCTAGACCACC ATG GAT TCA CAG GCC CAG GTT CTT ATA TTG
 p1 ▶ M D S Q A Q V L I L
 CTG CTG CTA TGG GTA TCT GGC ACC TGT GGG GAC ATT GTG
 p11 ▶ L L L W V S G T C G D I V
 CTG ACA CAG TCT CCA GAT TCC CTG GCT GTA AGC TTA GGA
 p24 ▶ L T Q S P D S L A V S L G
 GAG AGG GCC ACT ATT AGC TGC AAA TCC AGT CAG AGT CTG
 p37 ▶ E R A T I S C K S S Q S L
 CTC AAC AGT AGA ACC CGA GAG AAC TAC TTG GCT TGG TAC
 p50 ▶ L N S R T R E N Y L A W Y
 CAG CAG AAA CCA GGG CAG CCT CCT AAA CTG CTG ATC TAC
 p63 ▶ Q Q K P G Q P P K L L I Y
 TGG GCA TCC ACT AGG GAA TCT GGG GTC CCT GAT CGC TTC
 p76 ▶ W A S T R E S G V P D R F
 AGT GGC AGT GGA TCT GGG ACA GAT TTC ACT CTC ACC ATC
 p89 ▶ S G S G S G T D F T L T I
 AGC AGT CTG CAG GCT GAA GAC GTG GCA GTT TAT TAC TGC
 p102 ▶ S S L Q A E D V A V Y Y C
 ACG CAA TCT TAT AAT CTT TAC ACG TTC GGA CAG GGG ACC
 p115 ▶ T Q S Y N L Y T F G Q G T
 AAG GTG GAA ATA AAA C gtaagtagtcttctcaactctagaaattctaa
 p128 ▶ K V E I K XbaI
 actctgagggggtcggatgacgtggccattctttgcctaaagcattgagtttac
 tgcaagggtcagaaaagcatgcaaagccctcagaatggctgcaaagagctccaac
 aaaacaatttagaactttattaaggaatagggggaagctaggaagaaactcaaa
 acatcaagatttttaatacgttcttgggtctccttgctataattatctgggata
 agcatgctgttttctgtctgtccctaacatgccctgtgattatccgcaaacaac
 acaccaagggcagaactttgttacttaaaccacatcctgtttgcttcttctcct

VK

(continued on the next page)

Figure
Chain Gene

(cont'd): Nucleotide and Amino Acid Sequence of the h3D1 Light

	cag	GA	ACT	GTG	GCT	GCA	CCA	TCT	GTC	TTC	ATC	TTC	CCG
p133	▶	R	T	V	A	A	P	S	V	F	I	F	P
	CCA	TCT	GAT	GAG	CAG	TTG	AAA	TCT	GGA	ACT	GCC	TCT	GTT
p145	▶	P	S	D	E	Q	L	K	S	G	T	A	S
	GTG	TGC	CTG	CTG	AAT	AAC	TTC	TAT	CCC	AGA	GAG	GCC	AAA
p158	▶	V	C	L	L	N	N	F	Y	P	R	E	A
	GTA	CAG	TGG	AAG	GTG	GAT	AAC	GCC	CTC	CAA	TCG	GGT	AAC
p171	▶	V	Q	W	K	V	D	N	A	L	Q	S	G
	TCC	CAG	GAG	AGT	GTC	ACA	GAG	CAG	GAC	AGC	AAG	GAC	AGC
p184	▶	S	Q	E	S	V	T	E	Q	D	S	K	D
	ACC	TAC	AGC	CTC	AGC	AGC	ACC	CTG	ACG	CTG	AGC	AAA	GCA
p197	▶	T	Y	S	L	S	S	T	L	T	L	S	K
	GAC	TAC	GAG	AAA	CAC	AAA	GTC	TAC	GCC	TGC	GAA	GTC	ACC
p210	▶	D	Y	E	K	H	K	V	Y	A	C	E	V
	CAT	CAG	GGC	CTG	AGC	TCG	CCC	GTC	ACA	AAG	AGC	TTC	AAC
p223	▶	H	Q	G	L	S	S	P	V	T	K	S	F
	AGG	GGA	GAG	TGT	TAG	agggagaagtg	ccccccac	ctgctc	ctcagttc				
p236	▶	R	G	E	C	Stop							

cagcctgacccccctcccaccccttggcctctgaccctttttccacaggggac
ctacccctattgcggtcctccagctcatctttcacctcacccccctcctcct
ccttggcctttaattatgctaattgttggaggagaatgaataaataaagtga
tctttgcacctgtggtttctctctttcctcatttaataattattatctgtg
ttttaccaactactcaatttctcttataagggaactaaatatgtatcatcct
aaggcgcataaccatttataaaaaatcatccttcattctattttaccctatca
tcctctgcaagacagtcctccctcaaaccacaagccttctgtcctcacagt
ccctggggccatggtaggagagacttgcttccttggtttccctcctcagca
agccctcatagtcctttttaagggtgacaggtcttacagtcataatccttt
gattcaattccctgggaatcaaccaaagcaaatttttcaaagaagaacct
gctataaagagaatcattcattgcaacatgatataaaataacaacacaataa
aagcaattaaataaacaacaatagggaatgtttaagttcatcatgtgtact
tagacttaattggaatgtcatgccttatttacatttttaaacaggtactgagg
gactcctgtctgccaagggccgtattgagtactttccacaacctaatttaat
ccacactatactgtgagattaaaaacattcattaaaatgttgcaaagggttct
ataaagctgagagacaaatatattctataactcagcaatcccacttctagga
tcaattc

CK

Figure
Gene

Nucleotide and Amino Acid Sequence of the h3D1 Heavy Chain

XbaI TCTAGACCACC ATG GGT TGG AAC TGT ATC ATC TTC TTT CTG
p1 ▶ M G W N C I I F F L
p11 GTT ACC ACA GCT ACA GGT GTG CAC TCC CAG GTC CAG CTG
▶ V T T A T G V H S Q V Q L
p24 GTG CAG TCT GGG GCT GAG GTG AAG AAG CCT GGG AGC TCA
▶ V Q S G A E V K K P G S S
p37 GTG AAG GTG TCC TGC AAA GCT TCC GGC TAC ACA TTC ACT
▶ V K V S C K A S G Y T F T
p50 GAT TAT GCT ATA CAG TGG GTG AGA CAG GCT CCT GGA CAG
▶ D Y A I Q W V R Q A P G Q
p63 GGC CTC GAG TGG ATT GGA GTT ATT AAT ATT TAC TAT GAT
▶ G L E W I G V I N I Y Y D
p76 AAT ACA AAC TAC AAC CAG AAG TTT AAG GGC AAG GCC ACA
▶ N T N Y N Q K F K G K A T
p89 ATG ACT GTA GAC AAG TCG ACG AGC ACA GCC TAT ATG GAA
▶ M T V D K S T S T A Y M E
p102 CTT AGT TCT TTG AGA TCT GAG GAT ACG GCC GTT TAT TAC
▶ L S S L R S E D T A V Y Y
p115 TGT GCA AGA GCG GCC TGG TAT ATG GAC TAC TGG GGT CAA
▶ C A R A A W Y M D Y W G Q
p128 GGT ACC CTT GTC ACC GTC TCC TCA G gtgagtccttaaaacctc
▶ G T L V T V S S XbaI
tagagctttctggggcgagccgggctgacttttggtttggggcagggagtg
ggctaagggtgagggcaggtggcgccagccaggtgcacacccaatgcccgtgag
cccagacactggaccctgcctggaccctcgtggatagacaagaaccgagggg
cctctgcgccctggggccagctctgtccacaccgcggtcacatggcaccac
ctctcttgag CC TCC ACC AAG GGC CCA TCG GTC TTC CCC
p136 ▶ A S T K G P S V F P
p146 CTG GCG CCC TGC TCC AGG AGC ACC TCC GAG AGC ACA GCG
▶ L A P C S R S T S E S T A
p159 GCC CTG GGC TGC CTG GTC AAG GAC TAC TTC CCC GAA CCG
▶ A L G C L V K D Y F P E P
p172 GTG ACG GTG TCG TGG AAC TCA GGC GCT CTG ACC AGC GGC
▶ V T V S W N S G A L T S G
p185 GTG CAC ACC TTC CCA GCT GTC CTA CAG TCC TCA GGA CTC
▶ V H T F P A V L Q S S G L
p198 TAC TCC CTC AGC AGC GTG GTG ACC GTG CCC TCC AGC AAC
▶ Y S L S S V V T V P S S N
p211 TTC GGC ACC CAG ACC TAC ACC TGC AAC GTA GAT CAC AAG
▶ F G T Q T Y T C N V D H K
p224 CCC AGC AAC ACC AAG GTG GAC AAG ACA GTT G gtgagaggcc
▶ P S N T K V D K T V
agctcagggagggaggggtgtctgctggaagccaggtcagccctcctgcctg
gacgcacccccggtgtgcagccccagcccagggcagcaaggcaggccccatc
tgtctcctcaccggaggcctctgcccgcctcactcatgctcagggagagggg

VH

CHI

(continued on the next page)

Figure
Chain Gene

(cont'd): Nucleotide and Amino Acid Sequence of the h3D1 Heavy

tcttctggctttttccaccaggtccaggcaggcacaggctgggtgcccctacc
ccaggcccttcacacacaggggcaggtgcttggtcagacctgccaaaagccat
atccgggaggacctgcccctgacctaagccgaccccaaaggccaaactgtcca
ctccctcagctcggacaccttctctctctccagatccgagtaactccaatctt
ctctctgcag AG CGC AAA TGT TGT GTC GAG TGC CCA CCG TGC
p234 ▶ E R K C C V E C P P C
CCA G gtaagccagcccaggcctcgccctccagctcaaggcgggacaggtgcc
p245 ▶ P
ctagagtagcctgcacccaggacaggccccagctgggtgctgacacgtccacc
tccatctcttctcag CA CCA CCT GCG GCA GCA CCG TCA GTC
p246 ▶ A P P A A P S V
TTC CTC TTC CCC CCA AAA CCC AAG GAC ACC CTC ATG ATC
p255 ▶ F L F P P K P K D T L M I
TCC CGG ACC CCT GAG GTC ACG TGC GTG GTG GAC GTG
p268 ▶ S R T P E V T C V V V D V
AGC CAC GAA GAC CCC GAG GTC CAG TTC AAC TGG TAC GTG
p281 ▶ S H E D P E V Q F N W Y V
GAC GGC GTG GAG GTG CAT AAT GCC AAG ACA AAG CCA CCG
p294 ▶ D G V E V H N A K T K P R
GAG GAG CAG TTC AAC AGC ACG TTC CGT GTG GTC AGC GTC
p307 ▶ E E Q F N S T F R V V S V
CTC ACC GTT GTG CAC CAG GAC TGG CTG AAC GGC AAG GAG
p320 ▶ L T V V H Q D W L N G K E
TAC AAG TGC AAG GTC TCC AAC AAA GGC CTC CCA GCC CCC
p333 ▶ Y K C K V S N K G L P A P
ATC GAG AAA ACC ATC TCC AAA ACC AAA G gtgggacccgcgggggt
p346 ▶ I E K T I S K T K
atgagggccacatggacagaggccggctcgggccaccctctgcccctgggagtg
ccgctgtgccaacctctgtccctacag GG CAG CCC CGA GAA CCA
p355 ▶ G Q P R E P
CAG GTG TAC ACC CTG CCC CCA TCC CGG GAG GAG ATG ACC
p261 ▶ Q V Y T L P P S R E E M T
AAG AAC CAG GTC AGC CTG ACC TGC CTG GTC AAA GGC TTC
p374 ▶ K N Q V S L T C L V K G F
TAC CCC AGC GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG
p387 ▶ Y P S D I A V E W E S N G
CAG CCG GAG AAC AAC TAC AAG ACC ACA CCT CCC ATG CTG
p400 ▶ Q P E N N Y K T T P P M L
GAC TCC GAC GGC TCC TTC TTC CTC TAC AGC AAG CTC ACC
p413 ▶ D S D G S F F L Y S K L T
GTG GAC AAG AGC AGG TGG CAG CAG GGG AAC GTC TTC TCA
p426 ▶ V D K S R W Q Q G N V F S
TGC TCC GTG ATG CAT GAG GCT CTG CAC AAC CAC TAC ACG
p439 ▶ C S V M H E A L H N H Y T
CAG AAG AGC CTC TCC CTG TCC CCG GGT AAA TGA GTGAATTC
p452 ▶ Q K S L S L S P G K EcoRI
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H

CH2

CH3